An outline of paleontological investigation

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An outline of paleontological investigation

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Paleontological investigations were done preliminarily in January, 1977 by Watanabe and from December, 1977 to Febriary, 1978 by us. Collecting methods were depended on picking collection from land-surface, excavation and washing-screening. More than a hundred specimens were collected and housed in the Museum of INGEOMINAS (Instituto de Investigaciones Geológico y Mineras), Colombia.

Arrangement and identification of specimens were done on March, 1978 in Colombia by us. About 20 specimens, most interested for us, were lent during one and half years from INGEOMINAS to Embassy of Japan in Colombia, and then were studied and copied in Primate Research Institute, Kyoto University.

It was a pity that our aim of discovering fossil primates was not achieved, but important discovery was done. Description of a new caviomorph rodent was shown in other paper.

Simplified maps of research area and investigated sites were shown in Figure 1. New species and other rodents were shown in Photos 1–6 and also landscapes of localities in Photos 7–9. Numbered localities and specimens, and identifications were listed in Table 1.

Our investigation was done by many personal and financial supports. We heartily thank to the Ministry of Education, Science and Culture of the Japanese Government for financial support, and to INGEOMINAS, INDERENA and "Universidad Nacional" of Colombia for permission of investigation and to Dr. F. Zambrano, Dr. H. Duque, Mr. Rincon and Mr. L. Calvajal of INGEOMINAS, Dr. G. Correal and Mr. F. Lemus of "Universidad Nacional" and Dr. Mejia of INDERENA for kind advices and cooperations of work. We also thank to Mr. M. Hayakawa for interpreter and to many habitants of Villa Vieja, Huila, Colombia.

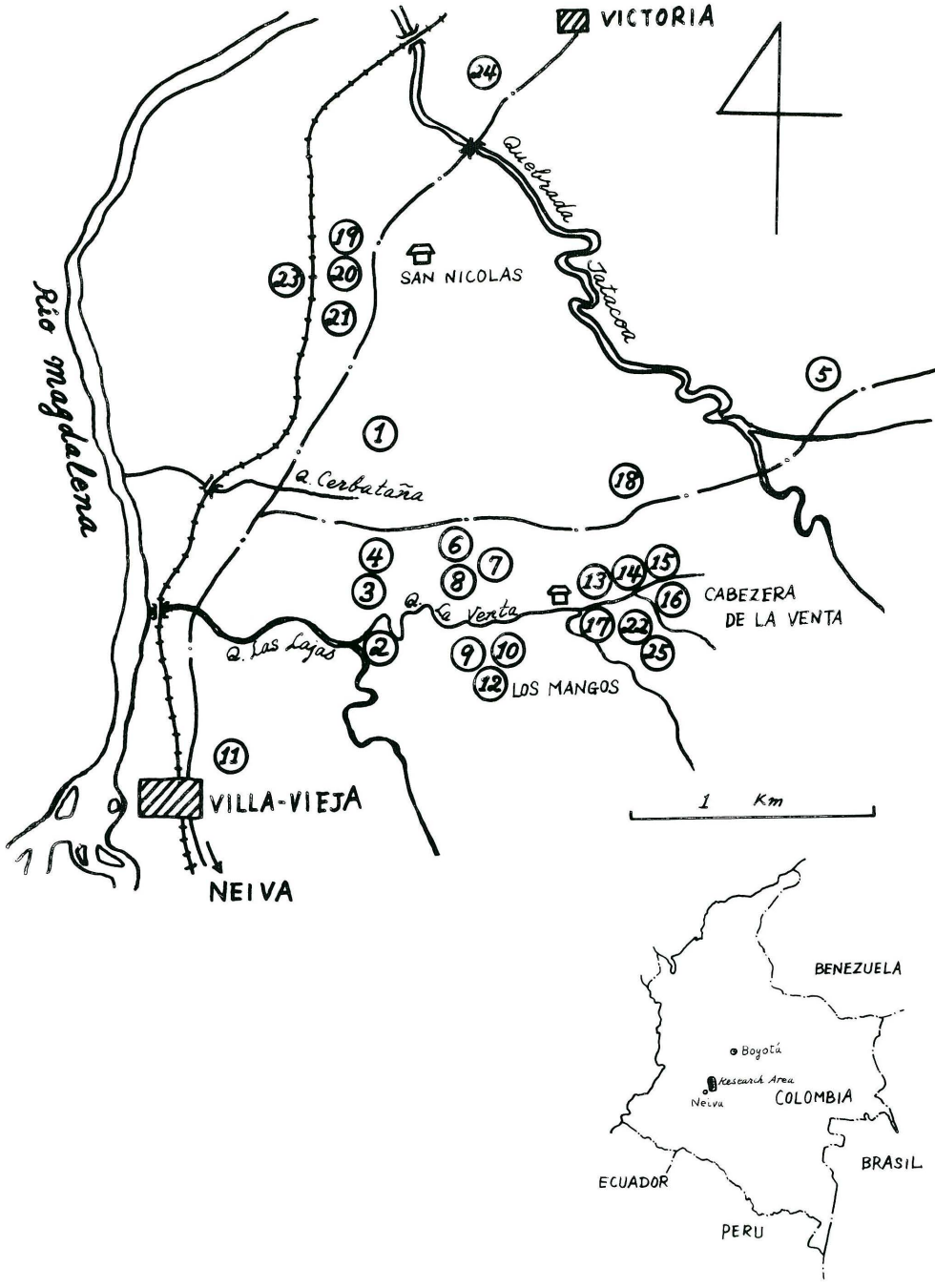

Fig. 1. Simplified maps of research area.

Table 1. Locality, Specimen and Identification.

No. localities and specimens	Identification
T.W. 1-1	fragments of Gliptodon
2-1	unknown
3-1	Interatheriidae
4-1	Coprolites
4-2	Notoungulata
4-3	fragments of Astrapotheriidae
5-1	fragment of basi-cranium, unknown
5-2	Interatheriidae
6-1	Prodolichotis
7-1	Interatheriidae
7-2	Olenopsis
7-3	Scleromys
7-4	fragments of Gliptodon
7-5	Interatheriidae upper-jaw
8-1	Scleromys
8-2	fragments of Notoungulata
9-1	Toxodon
10-1	Olenopsis
10-2	Interatheriidae
10-3	unknown
10-4	not identified upper-jaw of Rodentia
10-5	Toxodon
10-6	Toxodon
10-7	Notoungulata isolated teeth
10-8	Rodentia isolated teeth
10-9	Fish teeth
11-1	Scleromys
11-2	Olenopsis
12-1	fragments of Notoungulata
13-1	not identified lower jaw
14-1	Interatheriidae
15-1	fragments of Notoungulata teeth
16-1	Interatheriidae
16-2	Interatheriidae
16-3	Interatheriidae
16-4	not identified Marsupial
16-5	not identified tooth of Rodentia
16-6	Interatheriidae
16-7	Sample of Clays
17-1	Olenopsis
17-2	not identified Marsupial
17-3	not identified various fragments
18-1	Interatheriidae
18-2	Interatheriidae
18-3	Interatheriidae
18-4	Not identified Rodentia
18-5	tooth of Notoungulata
19-1	Scleromys
19-2	Interatheriidae (Cranium)
19-3	Interatheriidae
19-4	not identified Rodentia
19-5	not identified tooth of Rodentia
19-6	Interatheriidae
19-7	not identified vertebra of Fishes
19-8	Interatheriidae
20-1	Interatheriidae
20-2	Interatheriidae
20-3	unknown
20-4	upper and lower jaws of Marsupial
20-5	Rodentia upper incisors and molars
20-6	Interatheriidae
20-7	Interatheriidae
20-8	Interatheriidae
20-9	Rodentia isolated incisor and molar
20-10	Interatheriidae
20-11	fragments of Interatheriidae
20-12	fragments of Interatheriidae
20-13	isolated teeth of Interatheriidae
20-14	Interatheriidae
21-1	Interatheriidae
22-1	not identified lower jaw
22-2	not identified tooth
22-3	Rodentia
22-4	unknown
22-5	not identified lower jaw
22-6	Edentata teeth
22-7	Rodentia isolated teeth
22-8	Fishes
22-9	Edentata teeth
22-10	Rodentia incisors
22-11	Rodentia teeth
22-12	Rodentia teeth
22-13	not identified premolar
22-14	not identified incisor
22-15	Notoungulata
22-16	Edentata tooth
22-17	not identified incisors
22-18	Rodentia isolated teeth
22-19	Fish teeth
22-20	not identified fragments
22-21	Notounglata
22-22	not identified fragments
23-1	not identified teeth
23-2	Interatheriidae
23-3	Interatheriidae
23-4	Interatheriidae
23-5	Rodentia lower jaw
23-6	Rodentia lower jaw
23-7	Rodentia isolated teeth
23-8	not identified incisors and teeth (c.f T.W. 22-14)
23-9	Interatheriidae
24-1	Interatheriidae
25-1	not identified Rodentia
25-2	Rodentia teeth
25-3	Interatheriidae
25-4	Astropotheria incisor
25-5	unknown
25-6	not identified various teeth

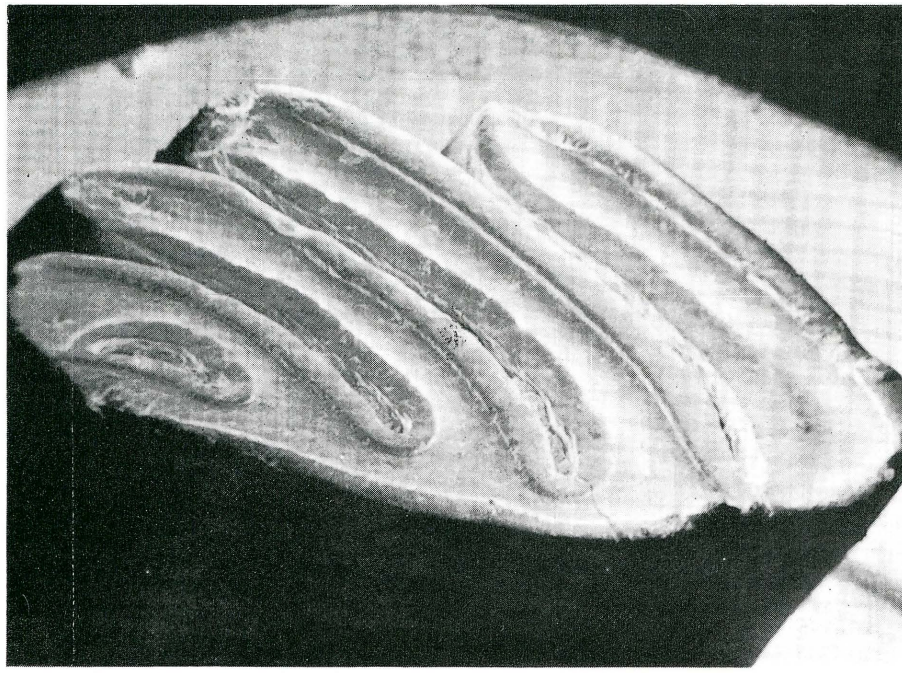

Photo. 1. No. TW22-3, Molar of rodent, × 30.

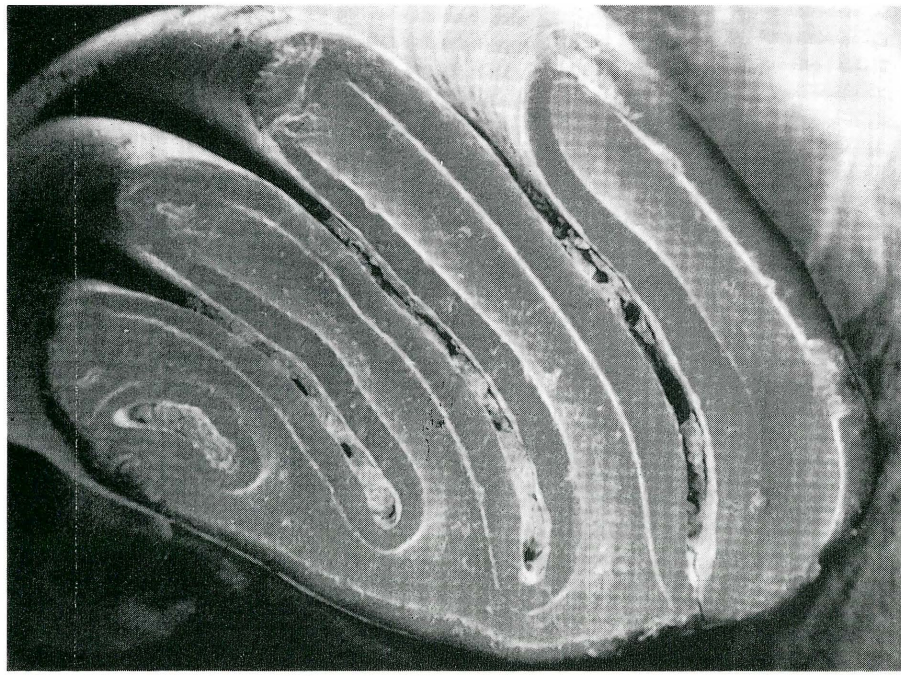

Photo. 2. Same specimen of photo 1, × 30.

Photo. 3. Same specimen of photos 1, 2, × 50.

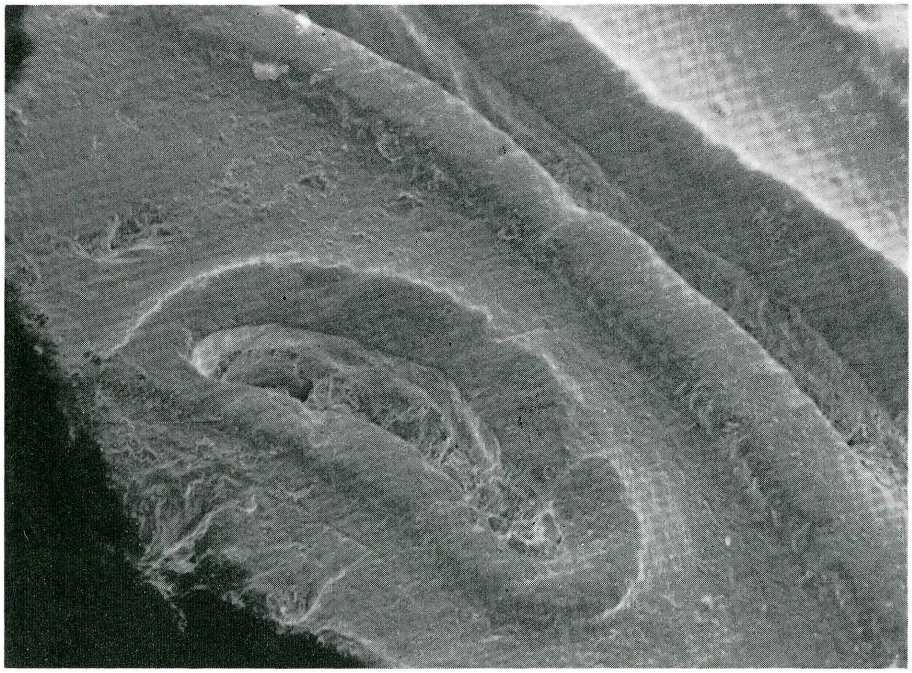

Photo. 4. Same specimen of photos 1, 2, 3, × 100.

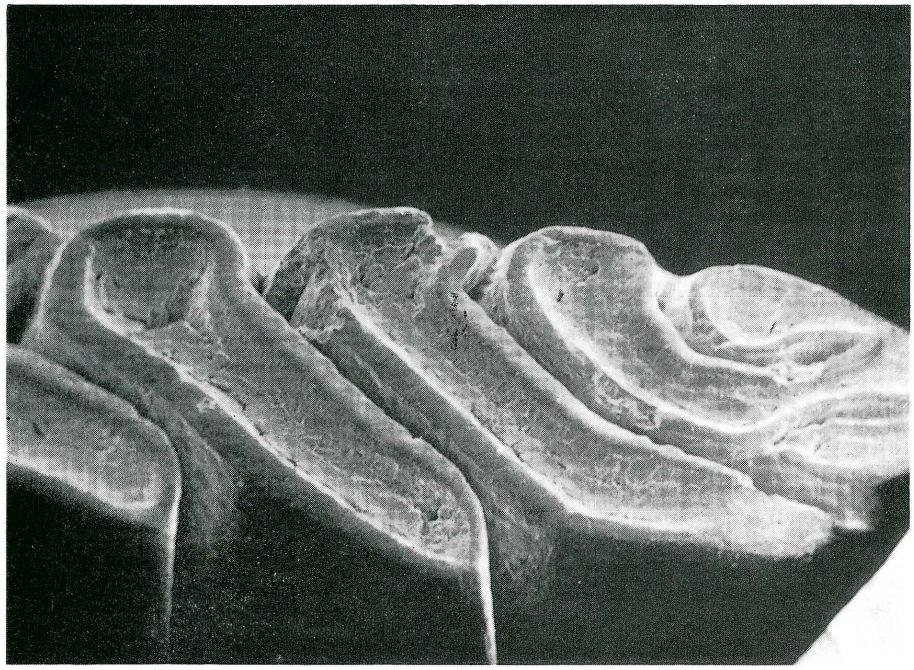

Photo. 5. No. TW22-3, Molar of rodent, × 30.

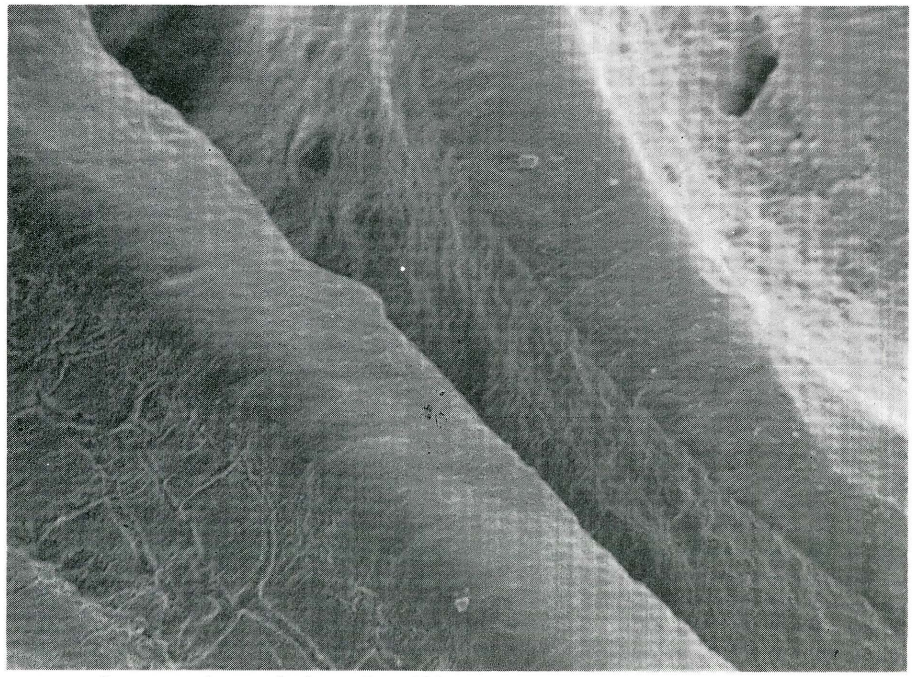

Photo. 6. Same specimen of photo 5, × 200

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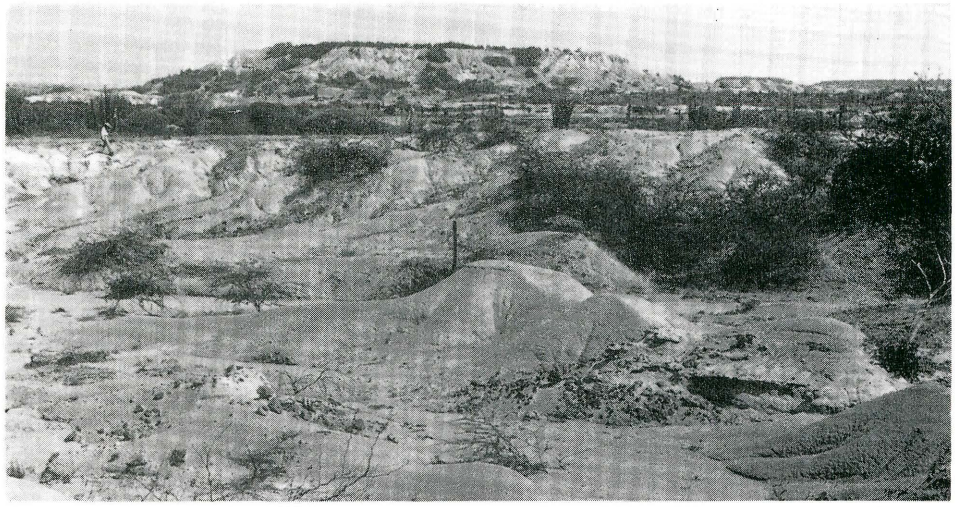

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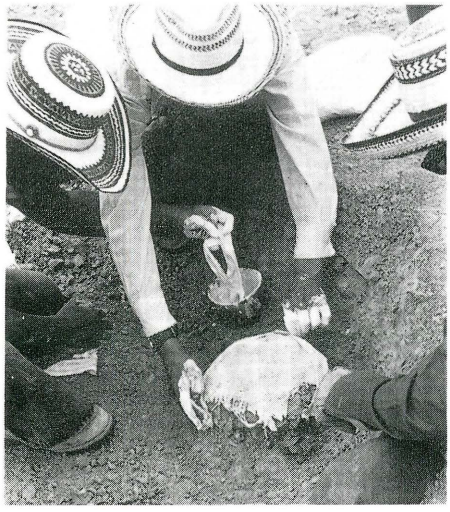

Photo. 7. Landscape of localities No. 3, 4, 6, 7 and 8.

Photo. 8. Landscape of locality No. 2.

Photo. 9. Plastered fossil and sands.